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Dehydroepiandrosterone sulfate is positively correlated with soluble interleukin 2 receptor and soluble intercellular adhesion molecule in systemic lupus erythematosus.

[Straub RH](#), [Zeuner M](#), [Antoniou E](#), [Schölmerich J](#), [Lang B](#)
J Rheumatol 1996 May 23;856-61

BROWSE : [J Rheumatol](#) • [Volume 23](#) • [Issue 5](#)

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Abstract

OBJECTIVE. To determine whether dehydroepiandrosterone sulfate (DHEAS) is linked with soluble immune mediators in systemic lupus erythematosus (SLE). **METHODS.** DHEAS and various soluble immune mediators were measured by ELISA in the serum of 35 patients with SLE (26 women, 9 men) and in 41 control subjects. **RESULTS.** DHEAS was lower in patients with SLE compared to controls (male 1.29 +/- 0.32 vs 3.04 +/- 0.33 micrograms/ml, $p < 0.001$; female 0.75 +/- 0.12 vs 2.16 +/- 0.18 micrograms/ml, $p < 0.001$). The DHEAS reduction was in part dependent on prior glucocorticosteroid treatment ($p < 0.02$). After adjustment for multiple comparisons, there was significant negative correlation between steroid dose and DHEAS (RRank = -0.426, $p = 0.005$), but with none of the soluble immune mediators. No significant difference in the percentage of steroid treated male and female patients was found ($p = 0.220$). However, there was positive correlation between DHEAS and soluble interleukin 2 receptor in women, but not in men, with SLE [RRank = 0.747 ($n = 26$, $p < 0.0001$) vs RRank = -0.1333 ($n = 9$, $p = 0.366$)] and between DHEAS and soluble intercellular adhesion molecule in women, but not in men, with SLE [RRank = 0.509 ($n = 26$, $p = 0.005$) vs RRank = 0.4833 ($n = 9$, $p = 0.094$)]. **CONCLUSION.** These data demonstrate positive interrelation between DHEAS and soluble immune mediators involved in leukocyte function and leukocyte adhesion only in female patients with SLE.

MeSH

Adult; Cell Adhesion Molecules; Dehydroepiandrosterone Sulfate; E-Selectin; Female; Glucocorticoids, Synthetic; Human; Intercellular Adhesion Molecule-1; Interleukins; Lupus Erythematosus, Systemic; Male; Middle Age; Prasterone; Prednisolone; Receptors, Interleukin-2; Statistics, Nonparametric; Vascular Cell Adhesion Molecule-1

-continued

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Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu Ile Arg	
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TTC CTG AAA CGG CTC GAC AGG AAC CTC TGG GGC CTG GCG GGC TTG	360
Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly Leu	
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AAT TCC TGT CCT GTG AAG GAA GCC AAC CAG AGT ACG TTG GAA AAC	405
Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn	
125 130 135	
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Phe Leu Glu Arg Leu Lys Thr Ile Met Asn Glu Lys Tyr Ser Lys	
140 145 150	
TGT TCG AGC TAG	462
Cys Ser Ser End	
153	

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

- (A) DESCRIPTION: hIL-4/R121P

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

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20 25 30	
TTA CAG GAG ATC ATC AAA ACT TTG AAC AGC CTC ACA GAG CAG AAG	135
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Thr Leu Cys Thr Glu Leu Thr Val Thr Asp Ile Phe Ala Ala Ser	
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Lys Asn Thr Thr Glu Lys Glu Thr Phe Cys Arg Ala Ala Thr Val	
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